



A.D. 1802 N^o 2671.

S P E C I F I C A T I O N

OF

JOHN LEWELL.

REGISTER STOVE.

L O N D O N :

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1854.



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Register Stove.

LEWELL'S SPECIFICATION.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, JOHN LEWELL, of Gresse Street, Rathbone Place, in the Parish of Saint Pancrass and County of Middlesex, Stove Maker, send greeting.

WHEREAS His most Excellent Majesty King George the Third, did, by His
5 Letters Patent, under the Great Seal of the United Kingdom of Great Britain and Ireland, bearing date at Westminster, the Twenty-first day of December, in the forty-third year of His reign, give and grant unto me, the said John Lewell, His especial licence that I, the said John Lewell, during the term of years therein mentioned, should and lawfully might make, use, exercise, and vend,
10 within England, Wales, and the Town of Berwick upon Tweed, my Invention of "A REGISTER STOVE UPON UPON IMPROVED PRINCIPLES;" in which said Letters Patent there is contained a proviso obliging me, the said John Lewell, by an instrument in writing under my hand and seal, to cause a particular description of the nature of my said Invention, and in what manner the same
15 is to be performed, to be inrolled in His Majesty's High Court of Chancery within one calendar month after the date of the said recited Letters Patent, as in and by the same, relation being thereunto had, may more fully and at large appear.

NOW KNOW YE, that in compliance with the said proviso, I, the said
20 John Lewell, do hereby describe and ascertain the nature of my said Invention, as follows, that is to say:—

I make my register stove or grate to shew two different fire-places and to give a greater heat into the room by the following means; viz^t, I make the back and cheek circular, convex, or concave; the two fire-places I make upon

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a circular direction, and I fix them on a circular bar, which bar I make with two, three, four, or more straps of iron that extend from the front of the bars or rails to the back of the register stove or grate, or I fix them on a circular plate of wrought or cast iron or any other proper metal, in the same circular direction, and extend them from the bars or rails of the register stove or grate 5 to the back of the same. The fire-places or bodies I make to work in a horizontal direction through the cheeks upon a bar of wrought or cast iron or any other proper metal, which bar of iron, &c. I make on a circular direction, and I fix it through the outside cheeks, about two, three, four, or five inches, less or more, from the fronts, and I extend it in a circular direction to a plate of 10 wrought or cast iron or any other proper metal, which I lay in a straight line with the front of the register stove or grate, about seventeen, eighteen, nineteen, twenty, twenty-one, or twenty-two inches, less or more, in depth, from the front thereof to the back plate thereof; the two fire-places I fix with the front edge of the rails or bars on a perpendicular line with the front 15 edge of the circular bar or plate at the distance of three, four, five, or six inches, more or less, from each other, which I make fast by screws or any other proper means to the convex inside cheeks, which cheeks I make fast also with screws or by any other proper means to the circular back that moves with the circular bar, or circular plates of wrought or cast iron or any other 20 proper metal, horizontally through the outside cheeks of the register stove or grate, on wheels, castors, rollers, or any diagonal motion, by means of rack and pinion; the rack I make circular, and fix it under the moving circular bar or plate with nuts and screws; the pinion I fix to the inside of the outside cheek by two loops of iron at the distance of two, three, four, five, or six inches, 25 less or more, from either cheek of the register stove or grate. I move the pinion by a winder or wynch through the frett or any other convenient part of the register stove or grate according to the size thereof, or by two, three, four, or five, less or more, wheels, through the outside of the cheek, or I use a pinion with two bevel wheels and one pinion under the rack, but in that case I place 30 the winder or wynch either through the front or outside cheek, or I make it to slide by pushing the fire grates through the cheeks by a handle fixed on a knob made fast in the rails of the fire-places. The front rails, in which the frett and standards are fixed, I make circular, or the ends concave or convex, and I fix them in a groove with the back edge of the rails at one-eighth or 35 one-fourth of an inch, less or more, from the front edge of the rails of the fire or the ornamental grate, and I fix them on wheels or rollers to move from the fire grates to prevent the cinders or ashes from stopping the working of the

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grates; at the back part of the register stove or grate I make a small flue of plate iron or any other proper metal or composition of metal, from the back part of the cheeks, to carry up the smoke when I make the fire to disappear or retreat from the room; on the top part of my register stove or grate I fix a
5 secret back and cheeks, for the purpose of curing smokey chimneys; at the back edge of the long or outside cheeks I fix a back made of plate iron or any other proper metal or composition of metal, forming a recess backwards of about five, six, seven, eight, or nine inches, more or less, and in the inside of the recess I fix two grooves of iron or other proper metal or composition of
10 metal in or near the center from the top of the cheeks to the hobs, in which I fix two sliders, which are shut on to a trap of iron or other metal about the center of the sliders, and extend from one groove to the other; the strap in the center of the sliders I make fast to the moving convex back, and the ends of the sliders I fix at the back side of two moving convex cheeks, which
15 cheeks I fix on an axis about three, four, or five inches, more or less, from the front edge of the outside cheeks on a center by or with a loop at the top made fast to the outside cheeks; when the moving back slides from the outside or fixed back towards the front rails of the fire grates, the ends of the sliders move the swinging cheeks with the moving back thereof to any required
20 degree of distance to create or cause a stronger draft to go through the fire and to carry the smoke from the room; the moving back I make of plate iron or any other proper metal or composition of metal, forming a recess, which takes the elevation of two, three, or four inches, more or less, from the surface of the hobs, and rises in a slant into the recess about four, five, or six inches,
25 more or less, and finishes the elevation at ten, eleven, twelve, thirteen, or fourteen inches, more or less, from the surface of the hobs; on each side the slant of the moving back I form a convex or hollow, to make room for the cheeks as they follow the back, and I make the back to move by a knob fixed in the center. I also apply the above-described register to stoves, grates, ranges, &c.
30 of various other descriptions. On the above principle I add three, four, or more fire grates to my register stove or grate, if required, and I make any part or parts or the whole thereof of steel, iron, brass, copper, or any other proper metal or semi-metal or composition of metal, according to the nature of the stove required.

35 In witness whereof, I, the said John Lewell, have hereunto set my hand and seal, the Seventeenth day of January, in the year of our Lord One thousand eight hundred and three.

J. LEWELL. (L.S.)

Lewell's Improved Register Stove.

N. SMITH.

AND BE IT REMEMBERED, that on the same Seventeenth day of January, in the year above mentioned, the aforesaid John Lewell came before our Lord the King in His Chancery, and acknowledged the Specification aforesaid, and all and everything therein contained, in form above written. And also the Specification aforesaid was stamped according to the tenor of the 5 Statute in that case made and provided.

Inrolled the Nineteenth day of January, in the year above written.

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